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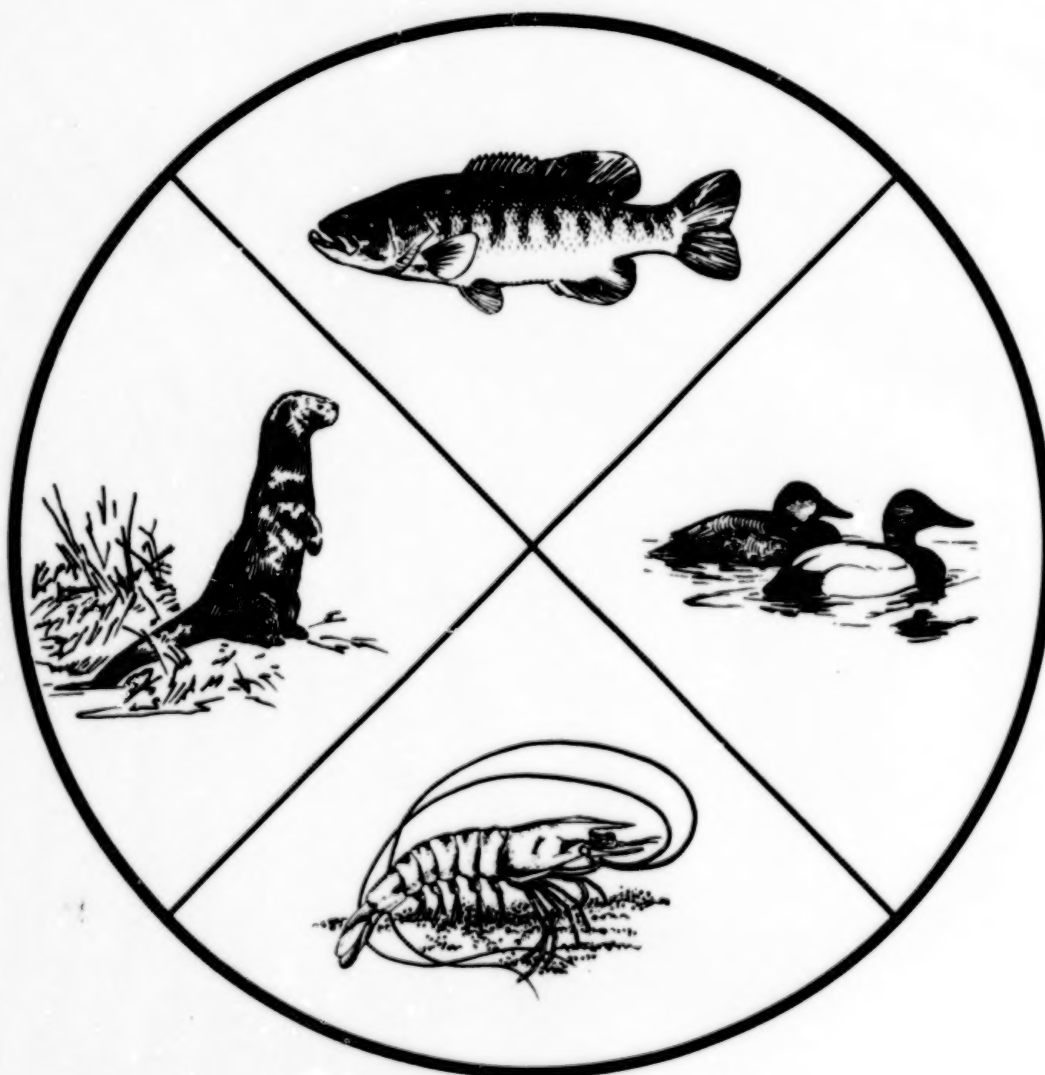
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CONTAMINANT HAZARD REVIEWS
REPORT NO. 16

INDEX TO COMMON AND SCIENTIFIC NAMES OF SPECIES LISTED IN CONTAMINANT HAZARD REVIEWS 1 THROUGH 15



Fish and Wildlife Service

U.S. Department of the Interior

SAF

Publications in the Contaminant Hazard Review Series^a

Subject	Publication date	Publication number
Mirex	March 1985	85(1.1)
Cadmium	July 1985	85(1.2)
Carbofuran	August 1985	85(1.3)
Toxaphene	August 1985	85(1.4)
Selenium	October 1985	85(1.5)
Chromium	January 1986	85(1.6)
Polychlorinated Biphenyls	April 1986	85(1.7)
Dioxins	May 1986	85(1.8)
Diazinon	August 1986	85(1.9)
Mercury	April 1987	85(1.10)
Polycyclic Aromatic Hydrocarbons	May 1987	85(1.11)
Arsenic	January 1988	85(1.12)
Chlorpyrifos	March 1988	85(1.13)
Lead	April 1988	85(1.14)
Tin	January 1989	85(1.15)

^aCopies of individual reviews, if available, can be obtained by writing the Section of Information Management, Patuxent Wildlife Research Center, U.S. Fish and Wildlife Service, Laurel, Maryland 20708.

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February 1989

Contaminant Hazard Reviews
Report No. 16

INDEX TO COMMON AND SCIENTIFIC NAMES
OF SPECIES LISTED IN CONTAMINANT
HAZARD REVIEWS 1 THROUGH 15

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SUMMARY

The Contaminant Hazard Review series emphasizes ecotoxicological aspects of selected chemical pollutants to fishery and wildlife resources, and includes reports on various agricultural pesticides (mirex, carbofuran, toxaphene, diazinon, chlorpyrifos), metals and metalloids (arsenic, cadmium, chromium, mercury, lead, selenium, tin), and organic industrial wastes (polycyclic aromatic hydrocarbons, dioxins, polychlorinated biphenyls). The present account is a cumulative index to the common and scientific names of all biological species listed in the first 15 reports in the Contaminant Hazard Review series, published as U.S. Fish and Wildlife Service Biological Reports 85(1.1) through 85(1.15), inclusive. Individual species were cross-referenced by contaminant and corresponding page numbers.

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INTRODUCTION

A total of 15 Contaminant Hazard Reviews have been published since 1985 (Eisler 1985a,b,c,d; 1986a,b,c,d; 1987a,b; 1988a,b; 1989; Eisler and Jacknow 1985; Odenkirchen and Eisler 1988). These reviews briefly summarized ecological and toxicological aspects of various chemical pollutants, with particular emphasis on fishery and wildlife resources. Specifically, reviews were prepared on selected agricultural pesticides (mirex, carbofuran, diazinon, toxaphene, chlorpyrifos), metalloids (arsenic, selenium), metals (cadmium, lead, chromium, mercury, tin), and organic industrial wastes (polychlorinated biphenyls, dioxins, polycyclic aromatic hydrocarbons).

We present herein an index to the common and scientific names of all species listed in Contaminant Hazard Reviews 1 to 15. This report was prepared in response to a request from environmental specialists of the U.S. Fish and Wildlife Service. Taxonomic nomenclatures for plants, invertebrates, and vertebrates are under constant revision. Accordingly, we elected to conform as much as possible to the systems and spellings used by Swain and Swain (1948) for insects, Edwards (1974) for birds, American Fisheries Society (1980) for fishes, Johnson and Finley (1980) and Jenkins (1980) for invertebrates, Jenkins (1980) and Scott and Wasser (1980) for plants, and Nowak and Paradiso (1983) for mammals.

In this report, individual species are arranged alphabetically in the Index by scientific and common name. The scientific name is followed by an underlined number that refers to one of the Contaminant Hazard Reviews in the following list, and to the page numbers within the report.

- 1- Mirex (Eisler 1985a)
- 2- Cadmium (Eisler 1985b)
- 3- Carbofuran (Eisler 1985c)
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Cottontail, eastern, Sylvilagus floridanus

Coturnix coturnix: 1 6, 9; 9 14; 10 50, 51-53; 12 56; 14 86.

Coturnix japonica: 1 6, 7; 2 24; 3 11, 12, 14, 22; 4 8; 5 26, 27, 29; 7 40, 52, 53; 9 11, 9; 10 51, 52, 62; 13 13, 15; 14 78; 15 8, 50-52.

Coturnix risoria: 13 15.

Cow, Bos bovis

Cowbird, brown-headed, Molothrus ater

Cowpea, Vigna sp.

Coyote, Canis latrans

Crab

Alaskan king, Paralithodes camtschatica

Alaskan snow, Chionocetes bairdii

Blue, Callinectes sapidus

Drift-line, Sesarma cinereum
 Dungeness, Cancer magister
 Fiddler, Uca pugilator
 Hermit, Pagurus longicarpus
 Mud, Rithropanopeus harrissi
 Rock, Cancer irroratus
 Stone, Menippe mercenaria
 Various, Carcinus, Neptunus, Podophthalmus
 Crabs: 3 8; 5 27; 6 5, 35; 7 28; 12 29, 81; 15 11, 35.
 Crane
 Lesser sandhill, Grus canadensis canadensis
 Sandhill, Grus canadensis
 Crangon crangon: 2 16; 12 29; 14 66, 67; 15 44.
 Crappie, white, Pomoxis annularis
 Crassostrea commercialis: 2 4.
 Crassostrea gigas: 2 4; 5 33; 6 33; 10 13; 12 50; 15 27, 29, 34, 41.
 Crassostrea spp. 12 27; 14 71.
 Crassostrea virginica: 2 27, 28; 4 10, 14-16; 5 11; 6 24, 33; 7 44, 45; 10,
 47; 11 27, 32, 36, 40, 42, 48; 12 27, 51, 54; 14 65; 15 11, 29, 44.
 Crataegus spp.: 14 28.
 Crawfish, Cambarus sp.
 Crayfish, Astacus, Orconectes, Pacifastacus, Procambarus
 Crayfishes: 3 1; 10 43, 64; 11 33.
 Crepidula fornicata: 10 48, 58, 59.
 Cricetus spp.: 2 31; 3 25; 6 27, 39; 8 24-26; 9 25; 11 1, 55; 12 10, 12,
 35, 37-39, 64; 13 12; 15 56.
 Cricket, Gryllidae
 Cristigera sp.: 14 67.
 Croaker, Atlantic, Micropogonias undulatus
 Crocodile, American, Crocodylus acutus
 Crocodylus acutus: 1 24; 10 30; 12 32.
 Crocothemis erythraea: 13 7.
 Crow, American, Corvus brachyrhynchos
 Ctenocephalides spp.: 13 6.
 Culex pipiens quinquefasciatus: 11 42.
 Culex spp.: 3 22; 5 31; 7 45, 47; 13 17, 24.
 Cunninghamella elegans: 11 34.
 Cutworm, Lepidoptera
 Cygnus buccinator: 14 2, 51.
 Cygnus columbianus: 14 51.
 Cygnus olor: 14 2, 37, 51.
 Cynodon dactylon: 12 40.
 Cynoscion nebulosus: 4 6.
 Cyprinodon variegatus: 3 8, 10, 11, 21; 4 10, 11, 16; 5 34; 7 39, 48, 50, 51,
 57; 9 11, 19, 21, 22; 11 38; 13 9, 10; 15 6, 42, 43, 48.
 Cyprinus carpio: 4 9; 5 17, 32, 35-37; 7 14, 33; 8 8, 9, 12; 12 24; 14 33; 15
 39.

Dab, Limanda limanda

Damselflies, Odonata

Daphnia galeata mendotae: 2 21.

Daphnia longispina: 15 46, 47.

Daphnia magna: 2 17, 21, 27; 4 9, 11, 14, 15; 5 31; 6 20, 23, 26, 30; 7 37, 44, 45, 51; 8 19; 9 10, 19; 10 46, 49; 11 40-42; 12 45; 13 6, 7; 14 12, 13, 58, 59, 71; 15 35, 38, 44, 47.

Daphnia pulex: 2 21; 4 9; 5 31; 9 10; 11 40-44; 12 46.

Daphnia sp.: 1 4, 8, 12; 3 22; 4 7; 5 36; 6 25; 14 72.

Daphnids, 11 45, 48; 14 57.

Daucus sp.: 9 5; 14 56.

Deer

Mule, Odocoileus hemionus

Roe, Capreolus capreolus

Various, Cervidae

White-tailed, Odocoileus virginianus

Dendrocygna bicolor: 3 11, 12; 4 12; 10 51.

Dianthus sp.: 5 5.

Dicranum scoparium: 10 21.

Digitaria sanguinalis: 12 6.

Diomedea immutabilis: 14 3.

Diplopoda, Millipedes

Diplodus sargus: 10 26.

Diploria strigosa: 7 47.

Dog, Canis familiaris, Canis sp.

Dogfish

Smooth, Mustelus canis

Spiny, Squalus acanthias

Dolphin, striped, Stenella coeruleoalba

Donax venustus: 10 24.

Dorosoma cepedianum: 4 6, 7.

Dorosoma petenense: 4 7; 5 18.

Dove

Mourning, Zenaida macroura

Ringed turtle-, Streptopelia risoria

Ring-necked, Streptopelia capicola

Rock, Columba livia

Drosophila melanogaster: 10 68.

Drum, freshwater, Aplodinotus grunniens

Duck

American black, Anas rubripes

American wood, Aix sponsa

Fulvous whistling, Dendrocygna bicolor

Tufted, Aythya fuligula

Mottled, Anas fulvigula

Various, Anas spp.

Duckweed, Lemna media, Lemna minor

Dugesia dorotocephala: 10 49, 58.

Dunaliella marina: 12 55.
Dunaliella tertiolecta: 14 65.

Eagle

Bald, Haliaeetus leucocephalus
White-tailed sea-, Haliaeetus albicilla

Earthworm

Australian, Lumbricus sp.

Various, Allolobophora, Eisenia, Eisenoides, Lumbricus, Octochaetus

Earthworms: 3 1, 8, 17, 18; 5 6, 22, 27, 38; 6 5, 14, 25; 8 12; 12 44; 14 22, 29, 48, 57.

Echinodermata: 6 36; 10 59; 15 37.

Echinus esculentus: 2 7.

Ecklonia radiata: 12 35.

Eel, American, Anguilla rostrata

Eels, Anguilla

Egret, cattle, Bubulcus ibis

Eichornia crassipes: 10 21.

Eider, common, Somateria mollissima

Eisenia foetida: 3 18; 6 14; 10 57, 68.

Eisenia rosea: 14 29.

Eisenoides carolinensis: 14 29.

Egretta laevigata: 14 71.

Elasmopus pecteniscus: 11 38.

Elk, Cervus canadensis (= elaphus), Cervus sp.

Elm, Ulmus americana

Elodea canadensis: 3 22; 14 70.

Elodea sp.: 3 21; 8 19.

Engraulidae: 14 34.

Enhydra lutris: 2 10.

Enteromorpha linza: 14 25.

Enteromorpha sp.: 15 28.

Entosiphon sulcatum: 14 59.

Eopsetta grigorjewi: 12 30.

Ephemera sp.: 2 17, 28.

Eptesicus fuscus: 7 23, 34; 14 44.

Equus caballus: 1 33; 5 1, 26, 28, 29, 44; 8 1, 26; 12 65; 14 111, 3, 44, 48, 53, 55, 87, 90, 91, 99, 104.

Eremophila alpestris: 4 12; 9 29; 13 17, 22, 23.

Erethizon dorsatum: 2 13.

Erithacus rubecula: 7 53.

Erolia (= Calidris) spp.: 3 1, 27.

Escherichia coli: 8 17.

Esox lucius: 5 32; 6 26; 8 20, 28; 10 26, 40, 61; 11 42, 46; 12 24; 14 64.

Esox niger: 8 16.

Estigmene acrea: 3 22, 23.

Eucyclops agilis: 2 21.

Euphausiid, Meganyctiphanes norvegica

Eurytemora affinis: 11 38, 39; 12 51; 15 41.
Eutamias townsendi: 14 44.

Falco columbarius: 1 32.
Falco mexicanus: 14 78, 79.
Falco peregrinus: 1 32; 7 52; 10 33; 14 38.
Falco rusticolus: 10 33, 41.
Falco sp.: 10 41.
Falco sparverius: 1 9, 16; 7 50; 14 13, 79, 80, 103.
Falco tinnunculus: 7 17; 10 54.
Falcon

Peregrine, Falco peregrinus
Prairie, Falco mexicanus
Swedish gyr, Falco rusticolus

Felis domesticus: 3 13; 4 8; 6 27; 8 1; 10 12, 15, 36, 54, 55, 64, 65, 68,
74; 12 65; 14 91, 99; 15 61.

Fern, ostrich, Matteuccia struthiopteris
Ferret, European, Mustela putorius furo
Fescue, Festuca arundinacea
Festuca arundinacea: 6 13.
Festuca rubra: 14 25.

Finch, house, Carpodacus mexicanus
Fish, harlequin, Rasbora heteromorpha
Flagfish, Jordanella floridae
Flatworm, see Dugesia dorotocephala
Flavobacterium: 5 4.
Fleas, Ctenocephalides spp., Siphonaptera
Flounder
Baltic or European, Platichthys flesus
Roundnose, Eopsetta grigorjewi
Summer, Paralichthys dentatus
Windowpane, Scophthalmus aquosus
Winter, Pseudopleuronectes americanus
Witch, Glyptocephalus cynoglossus
Yellowtail, Limanda limanda

Fly

Crane, Tipula sp.
Damsel, Ischnura
Dragon, Crocothemis, Macromia, Pseudagrion
Fruit, Drosophila melanogaster
Horn, Haematobia irritans, Muscidae
House, Musca domestica, Musca sp.
May, Hexagenia, Siphonurus
Snipe, Atherix sp.
Stone, Claassenia, Isoperla, Pteronarcella, Pteronarcys
Formicidae: 1 20; 5 6, 38.
Fox, red, Vulpes vulpes
Fragaria vesca: 3 4.

Fratercula spp.: 2 15

Frog

Bull, Rana catesbeiana

Cricket, Acris sp.

European, Rana temporaria

Green, Rana clamitans

Leopard, Rana sphenoccephala

Tree, Hyla sp.

Various, Rana, Xenopus

Frogs: 3 1, 22; 13 22.

Fruitworm, Lepidoptera

Fucus distichus: 14 26.

Fucus spp.: 11 32; 12 26.

Fucus vesiculosus: 2 4; 6 9; 12 26, 53; 14 26.

Fulica americana: 5 20, 38.

Fundulus heteroclitus: 2 28, 30, 31; 5 27; 6 23; 10 61; 13 19; 14 68; 15 45.

Fundulus kansae: 5 36.

Fundulus similis: 4 16; 11 40; 13 8.

Fungi: 5 20; 12 9; 14 24, 57; 15 10, 15.

Fungus, Cortinarius spp., Cunninghamella elegans

Gadopsis marmoratus: 10 27.

Gadus morhua: 2 8; 7 8, 12, 47; 12 31; 15 31.

Gadwall, Anas strepera

Galleria melonella: 3 17.

Gallinule, purple, Porphyryla martinica

Gallus spp.: 1 5, 9, 15, 19; 2 iii, 24, 31; 3 11, 23, 24; 4 17; 5 1, 29, 38; 6 18, 19, 27, 37; 7 36, 50, 53, 60; 8 1, 23, 28; 9, iv, 1, 6, 9, 14, 19, 23; 10 1, 51, 53, 61, 62, 74; 12 4, 6, 56, 58, 59, 61, 76, 77; 13 10, 12, 15; 14 13, 14, 80, 81, 86; 15 8, 32, 50, 51.

Gambusia affinis: 1 12; 2 28; 3 9; 5 18, 32, 36, 37; 8 21; 11 38, 42, 46; 13 9, 18; 14 34.

Gammarus duebeni: 10 49.

Gammarus fasciatus: 9 10.

Gammarus lacustris: 13 6, 7.

Gammarus oceanicus: 15 43.

Gammarus pseudolimnaeus: 7 37, 45; 10 46, 61; 11 37; 12 46, 53; 14 59.

Gammarus spp.: 1 4, 8; 4 9, 11; 6 20; 51.

Gar, spotted, Lepisosteus oculatus

Gasterosteus aculeatus: 2 17; 4 10; 14 64.

Gastrophryne carolinensis: 10 47; 12 44, 47, 81.

Gastropods: 3 24; 4 7; 5 27, 36; 6 12; 12 53, 81; 14 31.

Gavia arctica: 7 22.

Gavia immer: 5 19; 10 63; 14 38.

Gazelle, Antilopinae

Gerbil, Gerbillus sp., Meriones unguiculatus

Gerbillus sp.: 15 56.

Girella punctata: 10 14.

Glebula rotundata: 3 22, 23.
Globicephala macrorhynchus: 2 10; 5 15.
Glycine max: 2 12; 4 19; 12 39, 40, 43; 14 48, 56.
Glyptocephalus cynoglossus: 12 66.
Glyptotendipes barbipes: 7 47.
Goat, domestic, Capra hircus, Capra sp.
Goatfish, Mullus, Upeneus
Goby, edible, Boleophthalmus dussumieri
Goldenrod, Solidago graminifolia
Goldfish, Carassius auratus
Goose
 Canada, Branta canadensis
 Greylag, Anser anser
 Various, Anser spp.
Goosefish, Lophius piscatorius
Gopher, pocket, Thomomys sp.
Goshawk, Accipiter gentilis
Gossypium hirsutum: 3 19, 23; 4 iii, 1, 3, 4, 19; 12 6, 14, 39.
Grackle
 Common, Quiscalus quiscula
 Great-tailed, Quiscalus mexicanus
Grape, Vitis sp.
Grass
 Bahia, Paspalum notatum
 Blue, Poa annua
 Brome, Bromus inermis, Bromus spp.
 Buffalo, Bouteloua dactyloides
 Colonial bent-, Agrostis tenuis
 Common Bermuda, Cynodon dactylon
 Crab, Digitaria sanguinalis
 Marsh, Spartina sp.
 Johnson, Sorghum halepense
 Red fescue, Festuca rubra
 Saltmarsh, Spartina alterniflora
 Western wheat, Agropyron smithii
Grasshopper, western, Melanoplus spp.
Grasshoppers: 4 7, 19; 9 iv, 29.
Grebe
 Eared, Podiceps nigricollis
 Great crested, Podiceps cristata
 Pied-billed, Podilymbus podiceps
Grebes, Podicipediformes
Grindelia spp.: 5 6.
Grindelia squarrosa: 5 21.
Groundnut, Arachis hypogea
Grouse
 Ruffed, Bonasa umbellus
 Sharp-tailed, Tympanuchus phasianellus

Grunion, California, Leuresthes tenuis

Grus canadensis: 13 13; 14 2.

Grus canadensis canadensis: 4 12.

Gryllidae: 1 21; 6 42.

Gudgeon, topmouth, Pseudorasbora parva

Gull

California, Larus californicus

Franklin's, Larus pipixcan

Great black-backed, Larus marinus

Herring, Larus argentatus

Laughing, Larus atricilla

Lesser black-backed, Larus fuscus

Ring-billed, Larus delawarensis

Gumweed, Grindelia spp., Grindelia squarrosa

Guppy, Poecilia reticulata

Gutierrezia spp.: 5 6, 21.

Gymnogyps californianus: 14 3.

Haddock, Melanogrammus aeglefinus

Haematobia irritans: 13 16.

Haematopus ostralegus: 5 14.

Hagfish, Atlantic, Myxine glutinosa

Hake

Blue, Antimora rostrata

Red, Urophycus chuss

Haliaeetus albicilla: 10 63.

Haliaeetus leucocephalus: 1 31; 7 17, 32, 52; 10 33, 41, 74; 14 2, 38, 51, 74, 81, 103.

Haliaeetus sp.: 10 41.

Halibut, Atlantic, Hippoglossus hippoglossus

Halichoeres grypus: 10 43.

Haliotis rufescens: 2 5; 6 9; 14 71.

Hamster

Chinese, Cricetus spp.

Golden, Cricetus spp.

Haplopappus spp.: 5 21.

Hardy head, small-mouthed, Atherinasoma microstoma

Hare, Lepus europaeus

Hawk

Cooper's, Accipiter cooperii

Pigeon (= Merlin), Falco columbarius

Red-shouldered, Buteo lineatus

Red-tailed, Buteo jamaicensis

Hawthorn, Crataegus spp.

Heather, Scotch, Calluna vulgaris

Helianthus spp.: 4 iv, 21.

Helisoma campanulata: 12 46.

Helisoma sp.: 8 19.

Helisoma trivolvis: 13 7.
Helix aspersa: 3 23.
Helix spp.: 14 57.
Hemacentrotus sp.: 6 37.
Hemichromis bimaculatus: 15 46.
Hemifusus spp.: 12 27, 81.
 Hen, guinea, Gallus sp.
Hermione hystrix: 6 35, 36.
 Heron
 Black-crowned night-, Nycticorax nycticorax
 Gray, Ardea cinerea
 Great blue, Ardea herodias
 Green-backer (= Green, Striated), Butorides striatus
 Little green, Butorides virescens (= striatus)
 Yellow-crowned night-, Nycticorax violaceus
 Herring, Pacific, Clupea harengus pallas
Hexagenia bilineata: 11 38.
Hexagenia sp.: 5 16; 9 19; 11 41.
Himantopus mexicanus: 5 20.
Hinnites multirugosus: 10 20.
Hippoglossus hippoglossus: 15 31.
Hirundo rustica: 14 38, 39, 52.
 Hog, Sus spp.
 Hogchoker, Trinectes maculatus
 Holothurian, sea cucumber, Stichopus
Homarus americanus: 2 7, 29; 10 24; 11 27, 31, 32; 12 29, 35; 14 67; 15 29, 44.
Homo sapiens: 1 111, 1, 18, 27, 30, 33; 2 1, 16, 26, 27, 31-34; 3 111, 3, 15, 16, 25, 27; 4 111, iv, 4, 13, 14, 18, 20, 21; 5 iv, 1, 2, 5-7, 26, 27, 40-44; 6 111, I, 14, 18, 27, 38, 41, 46; 7 111, I, 5, 33, 54, 55, 57-59, 61; 8 111, 1-3, 16, 24, 28; 9 111, 1, 18; 10 111, 1, 2, 4, 10-12, 17, 40, 44, 54, 56, 62-65, 67-69, 72, 74; 11 iv, 1, 2, 9, 10, 12, 25, 40, 50, 51, 58-60, 62, 63; 12 111, iv, 1-5, 12, 14, 20, 35, 37, 38, 61, 65, 72-74, 77, 81; 13 1, 24; 14 111, 1, 2, 5, 7, 11-14, 86, 104-108 108; 15 1-4, 12, 34, 56, 63, 65, 66, 68, 69.
 Honeybee, Apis mellifera, Apis spp.
Hordeum vulgare: 12 39.
Hormomya mutabilis: 10 13.
 Hornworm, tobacco, Manduca sexta
 Horse, Equus caballus
 Hyacinth, water, Eichornia crassipes
Hyalella azteca: 5 31; 11 45.
 Hydra, Hydra oligactis, Hydra sp.
Hydra oligactis: 7 37.
Hydra sp.: 1 8.
Hydrodictyon reticulatum: 6 30.
 Hydroid, Campanularia
Hyla sp.: 10 47.

Hymenomonas carterae: 12 54.
Hypnum cupressiforme: 11 25, 26; 14 24.
Hypogymnia physodes: 10 21.

Ibis, white-faced, Plegadis chihi

Ictalurus furcatus: 4 6, 7.

Ictalurus melas: 4 9.

Ictalurus nebulosus: 7 12; 9 10, 11, 16; 11 23, 31, 47, 49.

Ictalurus punctatus: 1 7, 8; 2 20; 3 9; 4 4, 6, 9, 11, 14, 15, 16; 5 18, 32, 35; 6 26; 7 38; 8 9, 11, 12, 22; 10 28, 46; 12 25, 47; 13 9; 14 63; 15 45.

Ictalurus spp.: 8 16.

Indoplanorbis exustus: 9 20.

Ipomoea batatas: 9 1.

Ischnura sp.: 2 28.

Ischnura verticalis: 7 37.

Isoperla sp.: 10 23.

Isopod, Asellus sp.

Isurus oxyrinchus: 12 31.

Jackdaw, Corvus monedula

Jewelfish, Hemichromis bimaculatus

Jordanella floridae: 5 32; 9 10, 22; 12 47, 55.

Kale, Brassica oleracea acephala

Kelletia kelletia: 10 20.

Kelp

Brown, Ecklonia radiata

Giant, Macrocystis pyrifera

Kestrel, Falco tinnunculus

Kestrel, American, Falco sparverius

Killifish

Diamond, Adinia xenica

Freshwater, Fundulus kansae

Longnose, Fundulus similis

Kingfisher, belted, Ceryle alcyon

Kittiwake, black-legged, Rissa tridactyla

Klebsiella pneumoniae: 12 73.

Knifejaw, striped, Oplegnathus fasciatus

Knot, red, Calidris canutus

Knotted wrack, Ascophyllum nodosum

Lacewing, common green, Chrysopa carnea

Lactuca sativa: 11 25, 26, 35; 14 26, 57.

Lactuca spp.: 2 12; 4 1.

Lagarosiphon major: 12 69.

Lagodon rhomboides: 1 7, 12; 4 10; 5 34; 7 39, 46.

Lagopus lagopus: 10 41; 14 81, 82.

Lagopus mutus: 10 41; 14 100.

Laminaria digitata: 12 26.

Laminaria hyperborea: 12 27.

Lamprey, Petromyzontidae

Lanistes carinatus: 13 7.

Lanternfishes, Myctophidae

Laomedea loveni: 2 23.

Lark

Horned, Eremophila alpestris

Southern meadow, Sturnella magna argutula

Western meadow, Sturnella neglecta

Larus argentatus: 1 26-29, 32; 4 6; 5 15; 7 19; 8 1, 8, 13, 16, 23; 10 34.

Larus atricilla: 2 9; 4 6.

Larus californicus: 10 34.

Larus delawarensis: 4 6; 7 33, 36.

Larus fuscus: 6 14.

Larus marinus: 1 32.

Larus pipixcan: 4 6.

Lecanora confusaeoides: 14 48.

Ledum sp.: 10 21.

Leeches: 3 1; 5 6, 37; 9 19.

Leek, Allium porrum

Leiostomus xanthurus: 4 15; 7 39, 46.

Lemna media: 15 46.

Lemna minor: 6 30.

Lepidoptera: 3 26; 4 1, 19; 14 30.

Lepisosteus oculatus: 4 7.

Lepomis cyaneus: 3 9; 4 9; 5 18, 30, 35; 12 25, 55; 13 20.

Lepomis gibbosus: 6 12; 7 12; 10 28.

Lepomis macrochirus: 1 8, 12, 13; 2 31; 3 9; 4 7, 9; 5 17, 32, 37; 6 21, 26, 31, 41; 7 37; 9 8, 10; 11 37, 40-43, 45; 12 25, 47, 53, 55, 75; 13 8, 18, 20; 14 33, 63; 15 45.

Lepomis megalotis: 14 33.

Lepomis microlophus: 4 9.

Lepomis punctatus: 8 8.

Leptinotarsa decemlineata: 12 5.

Leptonychotes weddellii: 7 34.

Lepus europaeus: 7 24; 14 82.

Lepus sp.: 1 6; 3 15; 4 8; 5 28; 6 27, 38, 39; 7 42, 54, 55; 8 1, 12, 13, 24-26; 9 13, 16; 10 64; 11 1, 12; 12 72, 73; 14 91; 15 58, 59, 61.

Lettuce, Lactuca sativa, Lactuca spp.

Leuciscus idus melanotus: 15 40, 46.

Leucospus delineatus: 2 27.

Leuresthes tenuis: 13 6, 8, 11.

Lichen, Hypogymnia, Lecanora, Parmelia

Lily, water, Nuphar luteum

Limanda limanda: 2 8; 12 52; 15 38.

Limanda sp.: 12 35.

Limnodrilus hoffmeisteri: 3 10; 15 27.
Limnodrilus sp.: 11 45.
 Limpet,
 Slipper, Crepidula fornicata
 Various, Acmaea, Littorina, Patella
 Limpkin, Aramus guarauna
Lithobius variegatus: 14 57.
Littorina littorea: 2 5; 6 10; 12 28.
 Loach, Misgurnis fossilis
 Lobster
 American, Homarus americanus
 Spiny, Nephrops, Panulirus
 Western rock, Panulirus cygnus
 Lobsters: 6 35; 11 32; 12 29, 81.
 Locoweed, Astragalus spp.
Loligo vulgaris: 12 28.
Lolium perenne: 7 11.
 Longspur, chestnut-collared, Calcarius ornatus
 Loon
 Arctic, Gavia arctica
 Common, Gavia immer
Lophius piscatorius: 6 37.
Lophodytes cucullatus: 7 19.
 Louse, wood, Oniscus, Porcellio
 Lugworm, Arenicola cristata
Lumbricus herculeus: 3 18.
Lumbricus rubellus: 8 17.
Lumbricus sp.: 3 18.
Lumbricus terrestris: 3 18; 14 30.
Lutjanus griseus: 11 43.
Lutra canadensis: 5 23; 7 10, 24, 33, 34; 10 36, 43, 54, 55, 64.
Lycopersicon esculentum: 4 1; 10 25; 11 35.
Lygaeidae: 4 1.
Lymnaea palustris: 14 59.
Lymnaea peregra: 14 72.
Lymnaea stagnalis: 15 39.
Lymnaea sp.: 15 45.
Lynx rufus: 10 36.
Lysmata caudata: 5 37.
Lysmata seticaudata: 5 13; 12 54, 55.

Macaca fascicularis: 14 94; 15 56.
Macaca iris: 14 94.
Macaca mulatta: 1 17; 3 8, 15; 7 1v, 54, 55, 58, 60; 8 25, 26; 10 54, 55, 65;
 14 95.
Macaca sp.: 3 16; 10 66; 12 66.
Machaeranthera spp.: 5 6.
Macoma balthica: 12 51; 14 86.

Macoma nasuta: 3 10.
Macrobrachium lamarrei: 6 20, 30.
Macrobrachium rosenbergeri: 1 4.
Macrocystis pyrifera: 6 33.
Macromia sp.: 7 37.
Macrosiphium gei: 10 25.
Magpie, black-billed, Pica pica
Makaira indica: 2 8; 5 14; 10 28.
Makaira nigricans: 5 14; 10 28.
Melospiza americana: 14 30, 48.
Mallard, Anas platyrhynchos
Mallard, Mallard: 5 5; 12 6; 15 65, 69.
Mallard, Mallard: 12 22.
Man, Human, Child, Infant, Homo sapiens
Manatee, Trichechus manatus
Manduca sexta: 9 25.
Mangrove, Bruguiera, Rhizophora
Maple, red, Acer rubrum
Marlin
 Black, Makaira indica
 Blue, Makaira nigricans
Marmoset, Callithrix jacchus
Marmota monax: 5 23; 15 32.
Marten, Hartes martes
Martes martes: 10 64.
Hastotermes darwiniensis: 1 20, 33.
Matteuccia struthiopteris: 7 44.
Meadowlark, Sturnella spp.
Medaka, Oryzias latipes
Medicago sativa: 3 111, 1, 23, 27, 28; 4 1, 18; 9 1; 10 21; 12 22, 39.
Meganyctiphanes norvegica: 5 12, 37.
Melanogrammus aeglefinus: 5 34; 10 48.
Melanoplus spp.: 12 56.
Meleagris gallopavo: 4 7; 9 111, 8, 14; 12 4, 56, 59, 76, 77; 13 10, 12, 15;
 14 2; 15 8.
Menhaden, Atlantic, Brevoortia tyrannus
Menidia beryllina: 13 8, 11.
Menidia menidia: 5 34; 6 22; 13 8, 11.
Menidia peninsula: 13 8, 11.
Menippe mercenaria: 12 29.
Mercenaria mercenaria: 4 10; 6 10, 33; 10 47; 11 40; 12 28.
Merganser
 Common, Mergus merganser
 Hooded, Lophodytes cucullatus
 Red-breasted, Mergus serrator
Mergus merganser: 7 19.
Mergus serrator: 5 20; 7 19.
Mergus spp.: 7 22.

Meriones unguiculatus: 12 12.
Merlin, Falco columbarius
Metamysidopsis elongata: 15 44.
Mice
 Deer, Peromyscus maniculatus
 White-footed, Peromyscus leucopus
Microcystis aeruginosa: 14 58.
Microgadus tomcod: 11 47.
Microgogonias undulatus: 6 37.
Micropterus dolomieu: 8 11; 12 25; 14 33, 64.
Micropterus ochrogaster, see Microtus ochrogaster
Micropterus salmoides: 4 7, 9, 15; 5 17, 37; 6 41; 7 12; 10 28, 46; 11 45; 12 25; 13 20.
Microtus agrestis: 5 6, 23.
Microtus arvalis: 8 12, 16.
Microtus ochrogaster: 1 5, 7, 11, 18, 30, 33; 14 44.
Microtus pennsylvanicus: 2 13; 14 47.
Midge, Chaoborus, Chironomus, Tanytarsus
Midge, phantom, Chaoborus punctipennis
Milkvetch, Astragalus spp.
Millipedes: 3 26; 14 30, 48.
Mimus polyglottos: 12 56.
Mink, Mustela vison
Minnow,
 Cyprinid, Phoxinus, Puntius
 Eastern mud, Umbra pygmaea
 Fathead, Pimephales promelas
 Mud, Umbra limi
 Sheepshead, Cyprinodon variegatus
 Various, Poeciliopsis
Misgurnis fossilis: 15 39.
Mite
 European red, Panonychus ulmi
 McDaniel spider, Tetranychus mcdanieli
 Two-spotted spider, Tetranychus urticae
 Various, Arachnids
Mockingbird, northern, Mimus polyglottos
Mole, Talpa europaea
Molothrus ater: 3 12; 7 36, 40; 10 54; 12 56, 59.
Monkey
 Cynomolgus, Macaca spp.
 Rhesus, Macaca mulatta
 Squirrel, Saimiri spp.
Monkeys: 4 18; 5 26; 7 55; 8 24, 28, 29; 9 111, 27; 11 1; 14 111, 3, 87, 99, 108; 15 4, 61.
Montastrea annularis: 14 31.
Moose, Alces alces
Morone saxatilis: 2 8, 17, 23; 4 10; 5 14; 6 21; 7 13, 31, 47, 60; 10 28, 40,

59; 12 26, 31; 13 6, 7.
 Mosquito, Aedes, Culex,
 Mosquitofish, Gambusia affinis
 Moss
 Irish, Chondrus crispus
 Various, Brachythecium, Hylocomium, Hypnum, Sphagnum
 Moth
 Codling, Carpocapsa pomonella
 Greater wax, Galleria melonella
 Pineapple gummosis, see Lepidoptera
 Mouse
 Beach, or Old field, Peromyscus polionotus
 Field, Microtus arvalis
 Domestic, Mus spp.
 Western jumping, Zapus princeps
 Wood, Apodemus sylvaticus
Moxostoma duquesnei: 14 33.
Mudalia potosensis: 11 38.
Mugil cephalus: 1 15; 4 6; 12 31; 13 8.
 Mullet
 Gray, Chelon labrosus
 Striped, Mugil cephalus
 Yellow-eye, Aldrichetta forsteri
Mullus barbatus: 15 27.
Mummichog, Fundulus heteroclitus
 Murre, common, Uria aagle
 Murrel, Channa punctatus
Mus spp.: 1 4, 6, 7, 10; 2 24, 26, 31; 3 11, 13, 24, 25; 4 8, 18; 5 39; 6 27,
 38, 39, 44; 7 41, 49, 55; 8 24-27; 9 iv, 8, 13, 16, 18, 24-26; 10 67;
 11 1, 51-56, 62, 63; 12 12, 36, 38, 66, 73; 14 iii, 12, 53, 55, 87, 92,
 99, 104; 15 4, 8, 10, 52-55, 57, 59-61, 64, 65.
Musca domestica: 3 17, 18; 9 13.
Musca sp.: 3 23.
Muscidae: 1 21; 9 iii, 1, 3; 13 1.
 Muskrat, Ondatra zibethicus
 Mussel
 Common, Mytilus edulis
 Duck, Anodonta anatina
 Various, M. californianus, M. edulis planulatus, M. galloprovincialis
Mussels: 5 16; 6 88; 10 61; 11 25, 28; 12 53; 15 20, 37.
Mustela putorius furo: 7 41, 43, 54; 10 64; 14 99.
Mustela vison: 7 iv, 10, 24, 33, 41-43, 53, 54, 58, 60, 61; 10 37, 43,
 54-56, 64, 66, 74.
Mustelus antarcticus: 12 35.
Mustelus canis: 6 11.
Mya arenaria: 6 33, 34; 10 25, 47; 11 27, 29, 32; 14 52, 66; 15 45.
Myctophidae: 14 100.
Myotis grisescens: 7 24.

Myotis lucifugus: 7 25, 34; 14 44, 53.
Myotis spp.: 14 44.
Myoxocephalus scorpius: 2 9.
Myriophyllum spicatum: 6 30.
Mysidopsis bahia: 4 10, 15; 5 33; 6 26; 9 11, 22; 10 48, 59; 12 51; 13 6, 7; 14 66; 15 45.
Mysidopsis spp.: 2 16, 23; 7 27.
Mysis relicata: 7 11, 29.
Mystus vittatus: 3 9, 20, 21.
Mytilus californianus: 10 25, 43; 11 48.
Mytilus edulis: 2 5; 3 10; 5 12; 6 10, 34; 10 25, 48; 11 28, 32, 45; 12 28, 51; 14 31, 65, 66; 15 30, 41, 42, 48.
Mytilus edulis planulatus: 2 5.
Mytilus galloprovincialis: 5 12, 30, 37; 12 53.
Myxine glutinosa: 11 47.

Nais sp.: 6 23.
Najus guadalupensis: 14 71.
Nassarius obsoletus: 12 51; 15 45, 49.
Natrix sp.: 5 17.
Navicula sp.: 14 70.
Neanthes arenaceodentata: 6 22, 24, 26, 36; 11 37-39, 43; 14 66.
Nematode, Brugia, Bursaphelenchus, Panagrellus, Parafilaria
Nematodes: 9 111, 1; 15 15.
Nephrops norvegicus: 10 24.
Nephtys hombergi: 2 7.
Neptunus pelagicus: 10 13.
Nereis diversicolor: 2 7; 6 10.
Nereis virens: 5 36; 6 22; 7 47; 11 45.
Neritina sp.: 15 45.
Nerodia cyclopion: 7 15.
Nerodia rhombifera: 7 17.
Nerodia sipedon: 14 35.
Nerodia spp.: 7 31.
Nicotiana tabacum: 2 12; 3 4, 23; 5 22; 6 13, 42; 10 22; 12 6.
Microphorus tomentosus: 14 31.
Nitroca spinipes: 15 44, 47.
Nitzschia liebethruti: 15 48.
Nostoc muscorum: 3 18.
Notopterus notopterus: 10 46, 59.
Notropis hudsonius: 8 11; 12 48.
Notropis venustus: 4 7.
Nucella lapillus: 15 49.
Nucellus lapillus: 15 30, 40.
Nuphar luteum: 2 10.
Nycticorax nycticorax: 1 32; 7 19, 32, 52; 8 1.
Nycticorax violaceus: 4 7.

Oak, Quercus spp.
 Oat, Avena sativa
Oceanodroma furcata: 1 32.
Octochaetus pattoni: 10 57, 68.
Octopus, Paroctopus sp.
Odobenus rosmarus: 2 10.
Odocoileus hemionus: 4 12; 10 54, 56, 64; 12 68, 72; 14 53, 104.
Odocoileus virginianus: 2 14; 5 23; 12 34, 68; 14 45, 53; 15 32.
Odonata: 9 19.
Oedogonium cardiacum: 3 22; 5 31; 8 19; 11 42.
Oedogonium sp.: 6 30.
 Okra, Abelmoschus esculentus
Oligochaetes: 7 29; 15 27, 48.
Olisthodiscus lutens: 6 32.
Ommastrophes bartrami: 2 5.
Oncorhynchus gorbuscha: 11 38; 12 52.
Oncorhynchus keta: 12 49.
Oncorhynchus klutchi: 1 7, 8, 27, 29; 2 18; 3 9; 4 9; 5 18, 32; 6 31; 7 14, 30, 31, 49; 8 11, 12, 18, 21; 11 38; 12 26; 14 69.
Oncorhynchus spp.: 6 21, 23, 25.
Oncorhynchus tshawytscha: 1 27; 2 17; 5 18; 6 31; 7 30, 61; 15 34.
Ondatra zibethicus: 10 37, 43; 14 45; 15 32.
 Onion, Allium sp.
Oniscus asellus: 14 57.
Onopsis spp.: 5 6.
Ophioderma brevispina: 15 42.
Oplegnathus fasciatus: 9 8, 11.
Opsanus beta: 13 9, 10, 11.
 Orange, Mandarin, Citrus tachibana
Orchestia traskiana: 15 45.
Orconectes immunis: 13 7.
Orconectes limosus: 10 46.
Orconectes nais: 7 37, 45; 14 71.
Orconectes virilis: 10 23.
 Orfe, golden, Leuciscus idus melanotus
Oryctolagus cuniculus: 13 14; 15 10, 11, 52, 64.
Oryza sativa: 3 111, 1, 8, 19, 27; 5 22; 8 29; 9 1; 10 22; 12 39, 40; 14 26.
Oryzaephilus surinamensis: 13 1.
Oryzias latipes: 2 22.
Osmerus mordax: 1 27, 29; 8 11; 15 31.
 Osprey, Pandion haliaetus
Ostrea edulis: 15 2, 30, 42.
 Otter
 River, Lutra canadensis
 Sea, Enhydra lutris
Otus asio: 7 52, 60.
Ovis aries: 3 13; 9 14, 27; 10 37; 12 68, 69; 14 111, 3, 12, 45, 55, 87, 92-94, 99; 15 33.

Ovis canadensis: 6 15.
Ovis sp.: 1 33; 3 24; 4 8, 18, 19; 5 1, 26, 28, 29, 41; 9 1, 24; 10 43; 12 3;
15 15, 60, 64, 68.

Owl

Barn, Tyto alba
Eagle, Bubo bubo
Great horned, Bubo virginianus
Long-eared, Asio otus
Screech, Otus asio

Oyster

American, Crassostrea virginica
European flat, Ostrea edulis
Pacific, Crassostrea gigas
Sydney rock, Crassostrea commercialis

Oystercatcher, Eurasian, Haematopus ostralegus

Oysters: 5 27; 6 17, 34, 44; 7 48, 49; 11 40; 15 11, 20, 27, 34, 43, 70.

Pachymetopan grande: 6 37.

Pacifastacus sp.: 10 23.

Pagophilus groenlandica: 10 54, 56, 65, 74.

Pagurus longicarpus: 2 16.

Paintbrush, Indian, Castilleja spp.

Palaemon macrodactylus: 4 10.

Palaemonetes kadiakensis: 4 9; 7 37, 45.

Palaemonetes pugio: 2 7; 4 10; 6 35; 7 38; 11 37-39; 13 7; 14, 31; 15
45, 48.

Palaemonetes vulgaris: 1 12, 15, 21, 22; 2 16.

Palm, Iraqi date, Phoenix sp.

Panagrellus redivivus: 9 25, 28.

Pandalus borealis: 12 29, 35.

Pandalus montagui: 2 7; 14 31.

Pandalus spp.: 12 29.

Pandion haliaetus: 4 7; 6 14; 10 34; 12 21, 32.

Panonychus ulmi: 15 65.

Pantala hymenea: 2 28.

Panthers: 14 99.

Panulirus cygnus: 12 35.

Panulirus interruptus: 2 7.

Papio anubis: 14 95, 99.

Paracentrotus lividus: 14 31.

Parafilaria bovicola: 12 12.

Paralichthys dentatus: 5 34.

Paralithodes camtschatica: 12 29.

Paramecium caudatum: 11 48.

Paranais sp.: 8 19.

Parmelia baltimorensis: 14 23, 24.

Paroctopus sp.: 12 35.

Parophrys vetulus: 11 45, 46, 48; 12 32.

Partridge, gray, Perdix perdix
Paspalum notatum: 1 21, 23.
Passer domesticus: 3 12, 15; 5 23; 9 9; 10 52; 13 13; 14 39.
Patella caerulea: 15 27, 30.
 Pea, Pisum sativum
 Peanut, Arachis hypogaea
 Pear, Pyrus communis
Pecten alba: 12 35.
Pecten maximus: 2 6; 15 30, 34.
Pelecanus occidentalis: 2 10; 4 7; 5 14; 6 14; 10 34; 12 21, 32; 14 39.
Pelecanus sp.: 4 14; 7 34, 53.
 Pelican
 Brown, Pelecanus occidentalis
 Various, Pelecanus sp.
Penaeopsis joyneri: 9 20.
Penaeus aztecus: 5 34; 7 38; 9 11; 11 38, 40; 12 29; 13 6.
Penaeus duorarum: 4 10; 7 38; 11 40, 43.
Penaeus indicus: 10 48.
Penaeus latissulcatus: 12 35.
Penaeus setiferus: 10 61; 12 29; 13 21.
Penaeus sp.: 2 7.
 Penguin, Adelie, Pygoscelis adeliae
Perca flavescens: 3 9; 4 9; 5 32; 7 38, 48; 8 11, 16; 10 29; 12 26; 15 31.
 Perch
 Climbing, Anabas testudineus
 Yellow, Perca flavescens
Perdix perdix: 4 12; 7 20; 10 2, 52, 62; 12 60.
 Periwinkle, Littorina littorea
Pernis apivorus: 14 2, 3.
Peromyscus leucopus: 2 25; 3 15; 7 41, 56; 9 iv, 2, 23, 24, 26; 14 45, 47, 53; 15 61.
Peromyscus maniculatus: 11 54; 14 45, 46, 53; 15 33.
Peromyscus polionotus: 1 7, 17; 3 13-15; 8 8.
 Petrel, storm, Oceanodroma furcata
Petromyzontidae: 11 33.
Phaeodactylum tricornutum: 2 22; 14 65, 70.
Phalacrocorax auritus: 7 20, 32; 8 8, 13.
Phalacrocorax carbo: 7 21, 36.
Phalacrocorax sp.: 1 32.
Phaseolus sp.: 3 23; 4 1.
Phaseolus vulgaris: 7 29; 14 56.
Phasianus colchicus: 1 6, 7; 2 12; 3 12, 14; 4 8, 12, 17; 5 23; 7 21, 33, 40; 9 iv, 1, 14, 23, 30; 10 2, 34, 50, 52, 54, 63, 71; 12 60; 13 13, 15; 14 12.
Phasianus sp.: 3 8, 16; 5 6; 7 52, 53; 14 86.
 Pheasant, ring-necked, Phasianus colchicus
Philodena acuticornis: 6 20.
Philohela minor, see Scolopax minor

Phleum pratense: 7 11.
Phoca groenlandica: 6 12; 10 43.
Phoca hispida: 5 15; 7 25; 10 61, 64.
Phoca spp.: 5 15, 25.
Phoca vitulina: 5 15; 7 34; 10 37; 12 34; 14 53; 15 33.
Phoenix sp.: 13 23.
Phoxinus phoxinus: 7 48; 12 48.
Physa heterostropha: 6 20.
Physa sp.: 5 31; 8 19; 11 42, 46.
Physeter macrocephalus: 7 25.
Pica pica: 10 54.
Picea abies: 14 26, 48.
Picea alba: 12 22.
Pickeral, chain, Esox niger
Pieris brassicae: 9 6, 13.
Pig
 Guinea, Cavia spp.
 Domestic, Sus spp.
Pigeon, domestic, Columba livia,
Pike, northern, Esox lucius
Pimephales promelas: 1 8, 12, 13, 18; 2 31; 3 9; 4 9, 11, 14-16; 5 32; 6
 24-26; 7 51; 8 18, 22; 9 10, 18, 22; 10 58; 11 38, 41; 12 48, 55; 13 6,
 7, 20; 14 64; 15 46.
Pine
 Mugho, Pinus sp.
 Shortleaf, Pinus echinata
Pinfish, Lagodon rhomboides
Pinna nobilis: 6 33.
Pinnipeds: 14 99.
Pintail, northern, Anas acuta
Pinus echinata: 14 26.
Pinus silvestrus: 12 22, 41.
Pinus sp.: 3 4, 15, 23; 12 41.
Pisum sativum: 4 19; 12 39, 41.
Pitar morrhuana: 6 10.
Pitymys (= Microtus) pinetorum: 14 91.
Placopecten magellanicus: 2 6; 11 28; 12 28.
Plaice, Platichthys flesus, Pleuronectes platessa
Plant, marine flowering, Posidonia oceanica
Platichthys flesus: 2 8; 7 31, 48, 60; 11 40; 14 33.
Platymonas subcordiformis: 14 70.
Plegadis chihi: 5 14.
Pleuronectes flesus: 10 61.
Pleuronectes platessa: 14 67.
Plumaria elegans: 12 50.
Poa annua: 12 6, 39.
Pochard, Aythya ferina
Podiceps cristata: 10 35.

Podiceps nigricollis: 5 20.
Podiceps spp.: 7 22.
Podicipediformes: 10 12.
Podilymbus podiceps: 4 6.
Podoclavella moluccensis: 6 11.
Podophthalmus vigil: 6 34.
Poecilia reticulata: 3 21; 4 9; 5 6, 37; 8 18, 21, 28; 10 61; 14 71; 15 46.
Poeciliopsis spp.: 11 36, 48.
Polecat, Mustela putorius furo
Polychaetes, Capitella, Neanthes, Nereis
Pomatomus saltatrix: 2 8; 10 40.
Pomoxis annularis: 2 11.
Pontoporeia affinis: 2 23, 29.
Pontoporeia hoyi: 11 45.
Populus tremuloides: 7 11.
Porcellio scaber: 14 48, 57.
Porcellio sp.: 5 22.
Porcupine, Erethizon dorsatum
Porgy, Pachymetopon grande
Porgy, black, Sparus macrocephalus
Porphyra martinica: 4 7.
Porthetria dispar: 14 31.
Porzana carolina: 14 40.
Posidonia oceanica: 10 22.
Potamogeton crispus: 2 3; 15 4.
Potamogeton foliosus: 14 71.
Potamogeton richardsoni: 2 10.
Potamogeton spp.: 12 23; 14 27.
Potato
 Common, Solanum tuberosum
 Sweet, Ipomoea batatas
Prawn
 Deep sea, Pandalus borealis
 Freshwater, Macrobrachium tamarrei, M. rosenbergii
 Various, Pandalus montagu, Pandalus spp., Penaeus indicus, Penaeus
 latisulcatus
Prionace glauca: 12 35.
Pristina sp.: 2 21.
Procambarus acutus acutus: 3 9.
Procambarus blandingi: 1 4, 12, 21.
Procambarus clarkii: 1 14, 18; 9 19; 13 7.
Procambarus spp.: 4 7.
Procyon lotor: 1 21; 5 24; 7 41, 56; 10 38, 43; 14 46, 99, 104.
Pronghorn, Antilocapra americana
Prosopium cylindraceum: 10 29; 15 31.
Protozoan, Chilomonas, Cristigera, Entosiphon, Paramecium, Tetrahymena,
 Uronema
Prunus avium: 10 22.

Prunus serotina: 14 27, 48.
Psettichthys melanostictus: 11 40, 42.
Pseudagrion spp.: 13 7.
Pseudomonas sp.: 3 6; 5 4; 9 3; 15 4.
Pseudopleuronectes americanus: 2 23; 5 34; 8 18; 11 29; 15 31.
Pseudorasbora parva: 9 20.

Ptarmigan

Common, Lagopus mutus
Willow, Lagopus lagopus
Pteronarcella badia: 7 37; 13 6, 7.
Pteronarcys californica: 9 10; 12 46; 13 7.
Pteronarcys dorsata: 12 46.
Pteronarcys sp.: 4 9.
Ptychocheilus oregonensis: 10 40.
Puffins, Fratercula spp.
Puffinus pacificus: 5 14.
Pumpkinseed, Lepomis gibbosus
Puntius conchionus: 14 64.
Pygoscelis adeliae: 2 9.
Pyrus communis: 4 1; 5 22; 15 65, 69.
Pytiscidae: 2 28.

Quail

California, Callipepla californica
Common, Coturnix coturnix
Coturnix, Coturnix risoria
Japanese, Coturnix japonica
Quelea, Quelea quelea
Quelea quelea: 3 12, 15.
Quercus spp.: 12 41.
Quiscalus mexicanus: 4 6.
Quiscalus quiscula: 3 12, 17; 7 36, 52; 10 54; 13 13.

Rabbit,

Various, Lepus, Oryctolagus, Sylvilagus
White, Oryctolagus cuniculus
Raccoon, Procyon lotor
Racerunner, six-lined, Cnemidophorus sexlineatus
Radish, Raphanus sativus
Rail
Clapper, Rallus longirostris
Sora, Porzana carolina
Raja erinacea: 8 18.
Raja sp.: 12 32, 35.

Rallus longirostris: 1 32; 4 7.
Rana catesbeiana: 8 20; 9 10; 10 30; 13 6; 14 34, 50, 72.
Rana clamitans: 14 50.
Rana pipiens: 6 12; 10 30, 47, 59; 11 49; 14 72.
Rana sphenoccephala: 4 9.
Rana spp.: 12 32; 14 34.
Rana temporaria: 15 46.
Rana temporaria: 10 31.
Rana utricularia: 14 72.
Rangia cuneata: 3 10, 22; 6 34; 11 36, 41, 43, 44.
Rangifer tarandus: 10 64; 14 100.
Raphanus sativus: 14 56.
Rasbora heteromorpha: 15 46.
Rat

Cotton, Sigmodon hispidus
 Laboratory white, Rattus spp.
 Norway, Rattus norvegicus

Rattus norvegicus: 5 24; 7 41; 13 14; 14 46, 47.
Rattus spp.: 1 3-7, 10, 16; 2 iii, 19, 31; 3 11, 13, 15, 16, 23-25; 4 4, 8, 18, 5 iv, 26-29, 39, 41, 43, 44; 6 18, 27, 38-40; 7 41-43, 49, 54, 55, 58, 60; 8 24-29; 9 iv, 8, 13, 14, 24, 26, 30; 10 12, 65, 66; 11 1, 49, 51-53, 55, 63; 12 11, 69, 70, 73; 14 iii, 12-15, 55, 87, 95-97, 99, 108; 15 3, 4, 8, 10, 11, 52-64, 68

Ray, Raja sp.
Recurvirostra americana: 5 20.
Redhead, Aythya americana
Redhorse, black, Moxostoma duquesnei
Redshank, Icelandic, Tringa totanus robusta
Rhizophora spp.: 1 12; 10 20.

Rice,
 Domestic, Oryza sativa
 Wild, Zizania aquatica

Rissa tridactyla: 7 21.
Rithropanopeus harrisi: 4 10; 15 36, 45.

Robin,
 American, Turdus migratorius
 European, Erithacus rubecula

Rotifer, Brachionus plicatilis
Rudd, Scardinius erythrophthalmus
Rye, Secale cereale
Rye, perennial, Lolium perenne
Rynchops niger: 7 21, 32.

Saccharum officinarum: 3 1; 8 29.
Saccobranchus fossilis: 3 9.
Sagebrush, big, Artemisia tridentata
Saguinus fuscicollis: 9 1.
Saimiri spp.: 6 18.

Salamander

Marbled, Ambystoma opacum

Tiger, Ambystoma tigrinum

Salmo clarki: 7 38; 9 10; 13 8.

Salmo gairdneri: 1 8; 2 11, 18, 27, 28; 3 9; 4 3, 9; 5 26, 33, 35, 36, 40, 41; 6 20, 24-26, 31, 32; 7 31, 37, 47-49, 57, 60; 8 8, 11, 18, 20, 28; 9 8, 10; 10 46, 49, 59-61; 11 15, 37, 41, 43, 44, 48; 12 26, 48, 53, 55; 13 8; 14 13, 55, 57, 60-62, 69; 15 37, 43, 47.

Salmo salar: 1 12, 13; 2 22; 5 26; 7 31, 48; 11 41, 43; 12 26; 15 32, 34.

Salmo spp.: 10 29.

Salmo trutta: 3 9; 4 9; 5 36; 7 47, 49; 8 11; 11 33.

Salmon

Atlantic, Salmo salar

Chinook, Oncorhynchus tshawytscha

Chum, Oncorhynchus keta

Coho, Oncorhynchus kisutch

Pink, Oncorhynchus gorbuscha

Various, Salmonidae

Salmonella: 2 31; 3 25; 4 18.

Salmonella typhimurium: 3 25; 6 30; 7 55; 8 17; 11 34, 49; 12 35.

Salmonidae: 5 11, 18; 7 10, 47, 54; 10 40; 15 34, 70.

Saltbush, Atriplex spp.

Salvelinus fontinalis: 1 13, 18, 27; 2 18, 20, 22; 4 14, 15, 16; 5 33; 6 26; 7 12, 31, 48, 49, 51; 9 10, 18, 20, 22; 10 29, 46, 49, 59-61, 70, 74; 12 49; 14 62, 63.

Salvelinus namaycush: 1 27; 3 9; 4 5; 5 27, 35; 6 12, 26; 7 27, 31, 47, 60, 61; 8 8, 11; 9 10; 10 29; 12 26; 13 9; 14 62; 15 32.

Sanddab, speckled, Citharichthys stigmaeus

Sandpiper

Solitary, Tringa solitaria

Spotted, Actitis macularia

Various, Calidris, Erolia

Sarcophagus papa: 14 3.

Sargassum fluvitans: 12 27.

Sargassum sp.: 12 27.

Sauger, Stizostedion canadense

Scallop

Bay, Argopecten irradians

Giant, Placopecten magellanicus

Pacific, Chlamys ferrei nipponensis

Rock, Hinnites multirugosus

Various, Pecten

Scardinius erythrophthalmus: 6 31.

Scaup, Tesser, Aythya affinis

Scenedesmus obliquus: 12 44, 45.

Scenedesmus quadricauda: 7 48; 15 38.

Sciurus carolinensis: 2 14; 10 38.

Sciurus hudsonicus: 2 14.

Scolopax minor: 1 31; 3 18; 7 21.

Scombridae: 5 13.

Scophthalmus aquosus: 7 13, 31; 11 30; 12 32.

Screech-owl, eastern, Otus asio

Scripsiella faeroense: 10 59.

Scrobicula plana: 2 6.

Scud, Gammarus, Hyalella

Sculpin, shorthorn, Myoxocephalus scorpius

Sea-eagle, white-tailed, Haliaeetus albicilla

Sea lion, California, Zalophus californianus

Sea urchin, Anthocidaris, Arbacia, Echinodermata, Hemicentrotus, Paracentrotus

Seal

Australian fur, Arctocephalus pusillus

Gray, Halichoerus grypus

Harbor, Phoca groenlandica, P. vitulina

Harp, Pagophilus groenlandica

Northern fur, Callorhinus ursinus

Ringed, Phoca hispida

Weddell, Leptonychotes weddell

Seatrout, spotted, Cynoscion nebulosus

Secale cereale: 5 2; 6 13; 11 26; 12 12.

Selenastrum capricornutum: 12 45; 14 58, 71.

Sepiotheuthis australis: 12 35.

Sergestes lucens: 12 30.

Seriola quinqueradiata: 9 9.

Sesarma cinereum: 4 10.

Sesarma heamatocheir: 6 24.

Shad

Gizzard, Dorosoma cepedianum

Threadfin, Dorosoma petenense

Shark

Blue, Prionace glauca

Shortfin mako, Isurus oxyrinchus

Various, Carcharhinus, Mustelus, Sphyrna

Whitetip, Carcharhinus longimanus

Sharks: 10 40, 74.

Shearwater, wedge-tailed, Puffinus pacificus

Sheep

Bighorn, Ovis canadensis

Domestic, Ovis aries, Ovis sp.

Shell

Ivory, Buccinum striatissimum

Spindle, Hemifusus

Shiner

Blacktail, Notropis venustus

Spottail, Notropis hudsonius

Shoveler, northern, Anas clypeata

Shrew

Common, Sorex araneus
Short-tailed, Blarina brevicauda

Shrimp

Brine, Artemia salina
Brown, Penaeus aztecus
Glass, Palaemonetes kadiakensis
Grass, Palaemonetes pugio, P. vulgaris
Korean, Palaemon macrodactylus
Mysid, Metamysidopsis, Mysidopsis, Mysis
Pink, Penaeus duorarum
Sand, Crangon crangon
Various, Lysmata, Penaeopsis, Sergestes
White, Penaeus setiferus

Shrimps: 5 17, 37; 6 35; 7 38, 47, 48; 9 111, 8; 10 24; 12 29, 30, 81; 13 19; 15 37.

Sicklepod, Cassia spp.

Sigmodon hispidus: 6 5, 15, 42.

Silkworm, Bombyx mori

Sillago bassensis: 12 56.

Silverside

Atlantic, Menidia menidia
Inland, Menidia beryllina
Tidewater, Menidia peninsula

Simocephalus serrulatus: 2 17; 9 10; 12 47.

Simocephalus sp.: 4 9.

Simulium sp.: 14 31.

Siphonoptera: 9 3; 13 1.

Skate, little, Raja erinacea

Skeletonema costatum: 2 22; 12 50; 14 65; 15 38-40, 43, 45, 47.

Skimmer, black, Rynchops niger

Skipper, mud, Boleophthalmus dussumieri

Skua, great, Catharacta skua

Slug, Agriolimax reticulatus

Smelt, rainbow, Osmerus mordax

Snail

Land, Helix aspersa
Mud, Nassarius obsoletus
Pond, Cipangopoludina malleata
Ram's horn, Helisoma trivolvis
Red, Indoplanorbis exustus
Various, Amnicola, Arcularia, Australorbus, Biomphalaria, Bulinus,
Helisoma, Helix, Lanistes, Lymnaea, Mudalia, Neritina, Physa,
Viviparus

Snake

Garter, Thamnophis sp.

Northern water, Nerodia sipedon

Water, Natrix, Nerodia

Snapper, mangrove, Lutjanus griseus

Solanum tuberosum: 5 22; 12 6, 12; 14 27.

Sole

English, Parophrys vetulus

Sand, Psettichthys melanostictus

Various, Limanda, Solea, Trinectes

Solea solea: 7 8; 15 44.

Solenopsis invicta: 1 iii, 1, 11, 20, 21, 23, 24, 33; 13 1.

Solidago graminifolia: 7 11.

Somateria mollissima: 1 32; 2 9; 6 14.

Sorex araneus: 14 47.

Sorghum, Sorghum halopense

Sorghum halopense: 3 22; 12 68.

Soybean, Glycine max

Sparrow

Chipping, Spizella passerina

House, Passer domesticus

Sparrowhawk, European, Accipiter nisus

Spartina alterniflora: 10 20; 12 53.

Spartina spp.: 6 9.

Sparus macrocephalus: 10 14.

Spermophilus variegatus: 5 24.

Sphagnum spp.: 10 22.

Sphyngidae: 12 6.

Sphyrna spp.: 10 29.

Spider, Araneus umbricatus

Spinach, Spinacia oleracea

Spinacia oleracea: 11 35.

Spizella passerina: 2 27.

Spot, Leiostomus xanthurus

Spruce, Picea spp.

Squalus acanthias: 12 32; 15 32.

Squawfish, northern, Ptychocheilus oregonensis

Squid, Loligo, Ommastrephes, Sepioteuthis

Squids: 6 10.

Squirrel

Gray, Sciurus carolinensis

Red, Sciurus hudsonicus

Rock, Spermophilus variegatus

Stanleya spp.: 5 6.

Starfish, Asterias forbesi

Starling, European, Sturnus vulgaris

Stelgidopteryx serripennis: 14 40.

Stenella coerulescens: 10 38, 43.

Sterna forsteri: 4 6; 8 8, 13.

Sterna fuscata: 5 14.

Sterna hirundo: 2 10; 10 63; 14 82.

Sterna maxima: 5 14.

Sterna paradisaea: 7 22.

Stichopus japonicus: 12 35.

Stickleback

Fourspine, Apeltes quadracus

Threespine, Gasterosteus aculeatus

Stilt, black-necked, Himantopus mexicanus

Stizostedion canadense: 2 11.

Stizostedion vitreum vitreum: 2 11, 20; 6 26; 7 14; 10 29.

Strawberry, Fragaria vesca

Streptopelia capicola: 1 9.

Streptopelia risoria: 2 24; 7 36, 50, 53, 60; 8 23; 13 14; 14 82, 83.

Sturgeon

Sevyuga, Accipenser stellatus

Sheep, Accipenser nudiiventris

Sturnella magna argutula: 8 8.

Sturnella neglecta: 9 29.

Sturnus vulgaris: 1 6; 2 13; 3 12; 7 22, 32, 36, 40; 9 14; 10 54, 62; 12 33;
13 13; 14 40, 41, 52, 84, 107.

Stylodrilus sp.: 11 45.

Sucker, white, Catostomus commersoni

Sugar cane, Saccharum officinarum

Sula leucogaster: 7 23.

Sula sula: 5 14.

Sunfish

Green, Lepomis cyanellus

Longear, Lepomis megalotis

Redear, Lepomis microlophus

Spotted, Lepomis punctatus

Sunflower, Helianthus spp.

Sus spp.: 5 26, 28-30, 39, 44; 8 1, 5,; 9 iv, 8, 13, 14, 16, 24, 27; 10
12, 54, 55; 12 6, 11, 70, 77, 81; 13 12; 14 86, 98, 99.

Swallow

Barn, Hirundo rustica

Northern rough-winged, Stelgidopteryx serripennis

Swan

Mute, Cygnus olor

Trumpeter, Cygnus buccinator

Tundra, Cygnus columbianus

Swine, Sus spp.

Swordfish, Xiphias gladius

Sylvilagus floridanus: 2 14; 7 41.

Sylvilagus sp.: 12 71.

Tadpoles: 12 11.

Talpa europea: 5 24.

Tamarin, Saguinus fuscicollis

Tanytarsus dissimilis: 2 17; 5 31; 7 51; 14 60.

Tapes decussatus: 10 61.

Tapeworm: 12 3.

Tea, Labrador, Ledum sp.

Teal

Blue-winged, Anas discors

Green-winged, Anas carolinensis

Termite

Australian, Mastotermes darwinensis

Rhodesian, Trinervitermes dispar

Tern

Arctic, Sterna paradisaea

Common, Sterna hirundo

Forster's, Sterna forsteri

Royal, Sterna maxima

Sooty, Sterna fuscata

Terrapene carolina: 1 21; 14 35.

Tetraedron sp.: 13 18.

Tetrahymena pyriformis: 5 35; 7 45.

Tetranychus mcdaniell: 15 65.

Tetranychus urticae: 15 65.

Tetraselmis chui: 12 54.

Thais lapillus: 2 6.

Thalassiosira aestivalis: 12 50.

Thalassiosira pseudonana: 15 37, 39.

Thamnophis sp.: 11 49.

Thomomys sp.: 9 1.

Thynnus spp.: 5 14; 10 40.

Tilapia, Mozambique, Tilapia mossambica

Tilapia mossambica: 14 49; 15 46.

Timothy, Phleum pratense

Tipula sp.: 4 9; 5 22.

Tisbe holothuriae: 6 22.

Toad

European, Bufo bufo

Narrow-mouthed, Gastrophryne carolinensis

Various, Bufo sp., Bufo terrestris

Toadfish, Gulf, Opsanus beta

Toadflax, bastard, Comandra

Tobacco, Nicotiana tabacum

Tomato, Lycopersicon esculentum

Tomcod, Microgadus tomcod

Triaenodus tardus: 3 21.

Trichechus manatus: 7 25, 34.

Trichogaster pectoralis: 3 21.

Tridacna maxima: 11 28; 12 35.

Trifolium sp.: 4 1.

Trinectes maculatus: 1 14.

Trinervitermes dispar: 6 14.

Tringa solitaria: 7 23.

Tringa totanus robusta: 12 33.

Triticum aestivum: 2 12; 5 22; 9 25; 10 1; 11 25, 26; 12 12, 43.

Triticum vulgare: 15 28.

Triturus cristatus: 11 49.

Trout

Brook, Salvelinus fontinalis

Brown, Salmo trutta

Cutthroat, Salmo clarki

Lake, Salvelinus namaycush

Rainbow, Salmo gairdneri

Spotted sea, Cynoscion nebulosus

Tubifex costatus: 12 51.

Tubifex sp.: 6 30; 14 32.

Tubifex tubifex: 3 10; 15 27, 45.

Tuna

Japanese, Scombridae

Various, Thynnus spp.

Tunas: 10 30; 14 34.

Tunicate, Podoclavella moluccensis

Turdus merula: 5 23;

Turdus migratorius: 2 12; 7 23; 12 56; 14 41.

Turkey, Meleagris gallopavo

Turnip, Brassica rapa

Turtle

Atlantic green, Chelonia mydas

Box, Terrapene carolina

Slider, Chrysemys scripta

Snapping, Chelydra serpentina

Loggerhead, Caretta caretta

Turtle-dove, ringed, Streptopelia risoria

Tuskfish, scarbreast, Choerodon azurio

Tympanuchus cupido: 10 52.

Tympanuchus cupido attwateri: 7 23.

Tympanuchus phasianellus: 4 12.

Uta alba: 7 53.

Uca minax: 3 22.

Uca pugilator: 2 23; 10 48, 61; 15 37, 43.

Uca sp.: 13 19, 21.

Ulmus americana: 15 28.

Ulv sp.: 14 27.

Umbra limi: 9 18.

Umbra pygmaea: 6 13; 11 48.

Ureus moluccensis: 15, 27.

Uria aalge: 7 23.

Uronema marinum: 10 47.

Uronema nigricans: 10 61.

Uronema sp.: 14 59.

Urophycus chuss: 11 30.

Ursus maritimus: 7 1, 25.

Vaccinium angustifolium: 12 22.

Vaccinium pallidum: 14 27.

Vigna sp.: 12 41.

Vitis sp.: 5 22.

Vole

Bank, Clethrionomys glareolus

Field, Microtus agrestis

Meadow, Microtus pennsylvanicus

Pine, Pitymys (= Microtus) pinetorum

Prairie, Micropterus ochrogaster, Microtus ochrogaster

Viviparus ater: 14 14.

Vulpes sp.: 12 34; 14 99; 15 33.

Vulpes vulpes: 10 39, 43, 64.

Vultur gryphus: 14 2.

Vulture, king, Sarcorhampus papa

Walleye, Stizostedion vitreum vitreum

Walrus, Odobenus rosmarus

Watermilfoil, Eurasian, Myriophyllum spicatum

Weed

Duck, Lemna minor

Lake, Lagarosiphon major

Loco, Astragalus

Pond, Ceratophyllum, Najas, Navicula, Potamogeton

Sargassum, Sargassum fluvitans

Sea, Chondrus, Fucus, Sargassum

Water, Elodea

Whale

Cuvier's goosebeaked, Ziphius cavirostris

Fin, Balaenoptera physalis

Pilot, Globicephala macrorhynchus

Sperm, Physeter macrocephalus

Wheat, Triticum aestivum, Triticum vulgare

Whelk

Common dog, Nucella lapillus, Nucellus lapillus

Various, Kelletia kelletia, Thais lapillus

Whistling-duck, fulvous, Dendrocygna bicolor

Whitefish

Lake, Coregonus, Clupeaformis

Round, Prosopium cylindraceum

Various, Coregonus spp.

Whiting, Sillago bassensis

Widgeon, American, Anas americana

Wolffish, spotted, Anarhicas minor

Woodchuck, Marmota monax

Woodcock, American, Scolopax minor

Woodlice: 14 32, 48.

Worm

Earth, Allolobophora, Eisenia, Lumbricus, Octochaetus

Horn, Sphingidae

Lug, Arenicola cristata

Marine, Nephtys hombergi

Sand, Nereis diversicolor

Silk, Bombyx mori

Tiger, Eisenia foetida

Tobacco horn, Manduca sexta

Various, Limnodrilus, Nais, Neanthes, Paranais, Stylodrilus, Tubifex

Worms: 6 44; 7 8, 28, 50; 14 35; 15 8, 15.

Xenopus laevis: 5 31, 35; 11 49.

Xiphias gladius: 5 14; 10 30.

Yeasts: 3 26; 12 9, 41.

Yellowtail, Seriola quinqueradiata (= lalandei)

Zalophus californianus: 2 10; 5 15, 25; 10 39, 43; 14 52.

Zapus princeps: 6 15.

Zea mays: 3 11, 1, 4, 5, 15, 17, 21, 26-28; 4 19; 5 22; 6 13; 8 16; 9 1; 12 12, 43; 14 48, 56; 15 28.

Zebrafish, Brachydanio rerio

Zenaida (= Zenaidura) macroura: 7 23, 50, 60; 10 35; 14 2, 85.

Ziphius cavirostris: 7 26.

Zizania aquatica: 14 70.

Zytorhiza spp.: 5 6.

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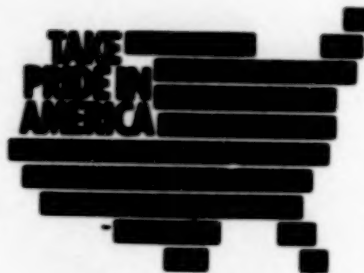
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